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**If There Were Life on Your Planet**

1. Answer the questions below using your chart from Home Sweet Home Part 1.   
   Make sure you explain the “because” part for each of your answers.
2. On a separate piece of paper design a creature that could exist on your planet. Decide what specific characteristics a creature must have to live in your planet’s unique environment.   
   Include the following:

* A detailed colored drawing of the creature.
* Label your drawing and describe:
  1. Creature’s unique features and how they help it survive on your planet (consider temperature, gravity, what they eat and how they get it, dangers they may encounter and the amount of light on your planet).
  2. What your creature does for “fun”.

Questions-

1. Would your creature be photosynthetic (can make their own food like a plant) or not? (hint: is there CO2 in the atmosphere?)
2. List 2 dangers your creature would face on your planet.
3. Would your creature need to be fat or skinny to withstand the temperature on your planet?
4. Would your creature need to be furry or bald to withstand the temperature on your planet?
5. Would your creature be small or large? (hint: think of temperature and weather)
6. Would your creature need small or large eyes for the amount of light on your planet? (hint: think of the distance from the sun and weather conditions)
7. Would your creature have wings or legs? (hint: think of what type of planet your creature lives on, solid or gas).
8. What color would your creature be (hint: be careful if your creature is photosynthetic)?
9. What type of recreation activity could your creature do on their planet? (hint: think of weather conditions, temperature, if there are rings, and type of surface on your planet)

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**A Human’s Spacesuit for Your Planet**

A. Answer the questions below using your chart from Home Sweet Home Part 1.   
 Make sure you explain the “because” part for each of your answers

B. On a separate piece of paper design a spacesuit that a human would need to survive on   
 your planet.

Include the following:

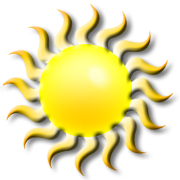
* Label the special parts of your spacesuit.
* Describe how each part is specially designed for the temperatures, weather conditions, atmosphere, and gravity of your planet.

Questions -

1. Would a spacesuit need to be thick or thin in order for humans to withstand the average temperature on your planet?
2. Will the thickness of the spacesuit have to be changed? (hint: think of the temperature range on your planet)
3. Would a spacesuit more likely have jetpacks or not? (hint: think of your planet’s type of surface)
4. What equipment would humans need to breathe on your planet?

(hint: is there oxygen on your planet?)

1. What special things need to be on your spacesuit to protect you from your planet’s conditions? (hint: think of the “other conditions” on your planet)
2. Will your suit need to add pressure or release pressure? (hint: think of your planet’s atmospheric pressure)
3. Would you need to have more or less weight on your suit? (hint: think of your planet’s “surface” gravity)
4. On your planet, would humans have to add or subtract hours on their watches? (hint: think of the length of rotation on your planet)

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**The Sun from Your Planet**

A. Answer the questions below using your chart from Home Sweet Home Part 1.   
 Make sure you explain the “because” part for each of your answers.

B. On a separate piece of paper write a poem about looking at the sun from your planet. The   
 poem does not have to rhyme, however it can. It must be at least 10 lines (no haikus).   
 Include the following:

* Length of day
* Distance from the sun
* How well you can see the sun (think about how thick the atmosphere is and if there are any storms)
* The current weather conditions
* Make a colored picture that goes with your poem.

Questions –

1. How would the distance of your planet affect your view of the sun? (hint: think of the average distance from the sun)
2. How would the thickness of your planet’s atmosphere affect your view of the sun?
3. How would the length of your planet’s day affect your view of the sun?
4. Would the presence of seasons and/or the length of your planet’s seasons affect your view of the sun? (hint: think if your planet has seasons based on its tilt and how long they are based on the length of revolution)
5. How would other conditions on your planet affect your view of the sun?
6. How would the temperature of your planet affect how you felt about the sun?

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**Travel to Your Planet**

1. Answer the questions below using your chart from Home Sweet Home Part 1.   
   Make sure you explain the “because” part for each of your answers.
2. Design a travel brochure with your planet as the destination.

Include the following:

* On a separate piece of paper describe activities/adventures Earthlings could do on your planet. Explain why they are possible on your planet (why would they be so fun). Think about the weather, gravity, temperature, planetary features and type of surface.
* Give your trip an exciting title.
* Include colored pictures of the activities to persuade other Earthlings to go to your planet.

Questions-

1. Would visitors need to pack warm weather clothes, cold weather clothes or both? (hint: think of your planet’s range of temperatures and if your planet has seasons based on its tilt and how long they are based on the length of revolution)
2. Would visitors stay in a floating hotel or one on the ground? (hint: think about what type of surface does your planet have)
3. Would visitors need oxygen tanks when they left the hotel?

1. Are some times in the year better than others to go? (hint: think if your planet has seasons based on its tilt and how long they are based on the length of revolution)
2. Would visitors feel taller or shorter on your planet? (hint: think of your planet’s atmospheric pressure)
3. What kind of other conditions do visitors need to be prepared for?
4. How long will a round trip take if you were traveling at 25,000 mph?
5. What are some things visitors can do on your planet? (hint: think of the   
    weather conditions and planetary features)